

In the Claims

SUB D17 1. (Presently Amended) A method for sizing the hardware resources for a yet-to-be

2 built database management system, the method comprising the steps of:

3 providing one or more percent desired hardware utilization limits for the yet-to-be built

4 database management system;

5 obtaining one or more throughput workload requirements for the yet-to-be built database

6 management system; and

7 determining calculating the hardware resources needed for the yet-to-be built database

8 management system to satisfy the one or more throughput workload requirements while

9 remaining within the desired percent hardware utilization limits.

C1 1 2. (Presently Amended) A method as recited in claim 1, the method further

2 comprising the steps of:

3 accepting user entered changes to the percent desired hardware utilization limits;

4 re-determining recalculating the required hardware resources needed in order to remain

5 within said percent desired hardware utilization limits; and

6 outputting the required determined hardware resources to the human user in a format to

7 advise the human user.

1 3. (Presently Amended) A method as recited in claim 1, the method further

2 comprising the steps of:

3 obtaining selected database requirements including an expected database size; and

4 determining calculating the hardware resources needed for the yet-to-be built database
C1 5 management system to satisfy the selected database requirements while remaining within the
6 percent desired hardware utilization limits.

1 4. (Previously Canceled) A method as recited in claim 4, the method further
2 comprising the steps of:
3 accepting user entered changes to the percent hardware utilization limits; recalculating
4 the required hardware resources in order to remain within said percent hardware utilization
5 limits; and
6 outputting the required hardware resources to the human user in a format to advise the
7 human user.

SUB D27

1 5. (Presently Amended) A method as recited in claim 2, wherein the one or more
2 throughput workload requirements includes a transactions per second requirement.

1 6. (Presently Amended) A method as recited in claim 5, wherein the calculating and
C2 2 recalculating determining and re-determining steps include calculating determining the hardware
3 resources needed as a function of the transactions per second requirement.

1 7. (Presently Amended) A method as recited in claim 4 2, wherein said hardware
2 resources requirements include a number of processors.

1 8. (Presently Amended) A method as recited in claim 7, wherein said calculating
2 and recalculating determining and re-determining steps include calculating determining said
3 number of processors as a function of the transactions per second requirement.

1 9. (Presently Amended) A method as recited in claim 4 7, wherein the percent
2 desired hardware utilization limits include a desired percent processor utilization and said
3 accepting step includes accepting changes to said desired percent processor utilization and said
4 calculation and recalculating determining and re-determining steps includes calculating
5 determining said hardware resources such that requirements within said desired percent
6 processor utilization limits is maintained and includes changing said number of processors
7 required when necessary to remain within said desired processor utilization limits.

1 10. (Presently Amended) A method as recited in claim 9, wherein said desired
2 percent processor utilization limits include upper an utilization limits to prevent over utilizing
3 utilization of said processors and said calculating and recalculating determining and re-
4 determining steps include calculating determining said number of processors needed to keeping
5 below said upper limit to prevent over utilization of said processors.

1 11. (Presently Amended) A method as recited in claim 10, wherein said desired
2 percent processor utilization limits includes a lower utilization limits to prevent under utilizing
3 utilization of said processors.

1 12. (Presently Amended) A method as recited in claim 11, wherein said calculating
2 and recalculating determining and re-determining steps include calculating determining said
3 number of processors needed to remain keeping above said lower limit to prevent under
4 utilization of said processors.

1 13. (Presently Amended) A method as recited in claim 10, wherein said desired
2 percent hardware utilization limits include a desired percent network interface card utilization
3 limit and said calculating and recalculating determining and re-determining steps include
4 calculating determining said hardware requirements within said desired network interface card
5 utilization limits and includes changing said number of network interface cards required when
6 necessary to remain within said network interface card utilization limits.

C2

1 14. (Presently Amended) A method as recited in claim 13, wherein said network
2 interface card utilization limits includes a lower utilization limits to prevent under utilizing
3 utilization of said network interface cards and said calculating and recalculating determining and
4 re-determining steps include calculating determining said number of network interface cards
5 needed to remain keeping above said lower limit to prevent under utilization of said network
6 interface cards.

1 15. (Presently Amended) A method as recited in claim 14, wherein said network
2 interface card utilization limits includes an upper utilization limits to prevent over utilizing
3 utilization of said network interface cards and said calculating and recalculating determining and
4 re-determining steps include calculating determining said number of network interface cards

5 needed to remain keeping below said upper limit to prevent over utilization of said network
6 interface cards.

1 16. (Presently Amended) A computerized method for calculating hardware resource
2 requirements for a yet-to-be built database management system computer comprising the steps
3 of:
4 establishing default values for selected hardware utilization limits;
5 initializing said selected hardware utilization limits to said default values;
6 obtaining a workload requirement from said human user; and
7 determining calculating said hardware resource requirements as a function of said
8 workload requirement while remaining within said selected hardware utilization limits.

02
1 17. (Presently Amended) A computerized method as recited in claim 16, the method
2 further comprising the steps of:
3 obtaining new hardware utilization limits from said human user;
4 re-determining recalculating said hardware resource requirements while remaining within
5 said hardware utilization limits; and
6 displaying the determined hardware resource requirements in a format to advise advise
7 the user of the required hardware resource requirements for a yet-to-be built database
8 management system computer to meet for the user entered workload requirement.

1 18. (Presently Amended) A computerized as recited in claim 17, wherein said
2 hardware resource requirements include a specified discrete numbers of hardware components.

1 19. (Presently Amended) A computerized method as recited in claim 18, wherein and
2 said calculating and recalculating determining and re-determining steps include calculating
3 determining said specified number of hardware components.

Sub D3>

1 20. (Newly Presented) Computer executable code stored on machine readable
2 media for sizing the hardware resources for a yet-to-be built database management system, the
3 computer executable code performing the steps of:
4 providing one or more desired hardware utilization limits for the yet-to-be built database
5 management system;
6 obtaining one or more throughput workload requirements for the yet-to-be built database
7 management system; and
8 determining the hardware resources needed for the yet-to-be built database management
9 system to satisfy the one or more throughput workload requirements while remaining within the
10 desired hardware utilization limits.